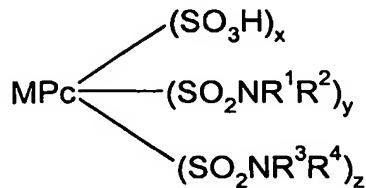


CLAIMS

1. A composition comprising:

(a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and

5 salts thereof:

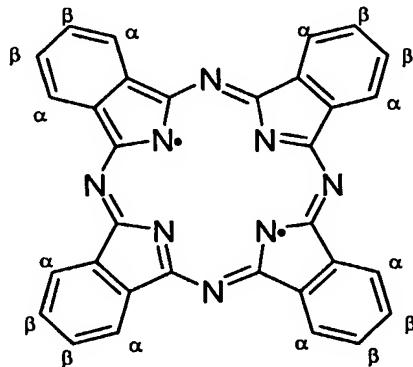


Formula (1)

10 wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula



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R¹, R² and R³ independently are H or optionally substituted C₁₋₄alkyl;

R⁴ is optionally substituted C₁₋₄-hydroxyalkyl;

x is 0.1 to 3.8;

y is 0.1 to 3.8;

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z is 0.1 to 3.8;

the sum of (x+y+z) is 4; and

the substituents, represented by x, y and z, are attached to a beta position on the phthalocyanine ring; and

25 (b) a liquid medium which comprises water, water and an organic solvent or an organic solvent free from water.

2. A composition according to claim 1 wherein R¹, R² and R³ independently are H or methyl.

3. A composition according to either claim 1 or claim 2 wherein R⁴ is unsubstituted C₁₋₄-hydroxyalkyl.

4. A composition according to any one of the preceding claims wherein R¹, R² and R³ 5 are all H and R⁴ is -CH₂CH₂OH.

5. A composition according to any one of the preceding claims wherein M is Cu.

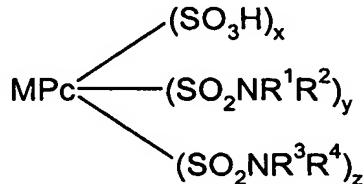
6. A composition according to any one of the preceding claims wherein x is less than 10 1. 1.

7. A composition according to any one of the preceding claims wherein at least 70% by weight of the total amount of phthalocyanine dye in said composition is of Formula (1).

15 8. A composition according to any one of the preceding claims wherein at least 90% by weight of the total amount of phthalocyanine dye in said composition is of Formula (1).

9. A composition according to any one of the preceding claims which is an ink suitable for use in an ink-jet printer.

20 10. A mixture of dyes of Formula (2) and salts thereof:

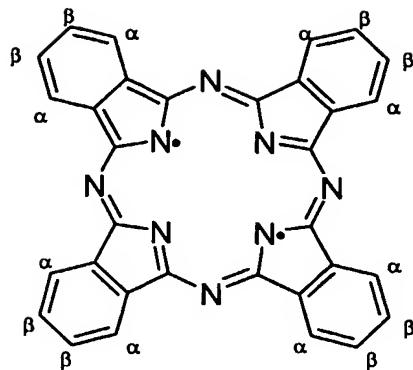


25 Formula (2)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula



R¹, R² and R³ independently are H or optionally substituted C₁₋₄alkyl;

R⁴ is optionally substituted C₁₋₄-hydroxyalkyl;

x is 0.1 to 3.8;

5 y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of (x+y+z) is 4; and

the substituents, represented by x, y and z, are attached to a β position on the phthalocyanine ring.

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11. A mixture of dyes according to claim 10 wherein R¹, R² and R³ are all H and R⁴ is -CH₂CH₂OH.

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12. A mixture of dyes according to either claim 10 or claim 11 wherein x is less than 1.

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13. A process for forming an image on a substrate comprising applying an ink suitable for use in an ink-jet printer, as described in claim 9, thereto by means of an ink-jet printer.

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14. A material printed with a composition according to any one of claims 1 to 9, dyes according to any one of claims 10 to 12 or by a process according to claim 13.

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15. A material according to claim 14 which is a photograph printed using a process according to claim 13.

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16. An ink-jet printer cartridge comprising a chamber and an ink wherein the ink is in the chamber and the ink is as defined in claim 9.